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The Florida Entomologist

Official Organ of the Florida Entomological Society

VOL. V

FALL NUMBER
OCTOBER, 1921

No. 2

A HOST PLANT LIST OF APHIDS IN THE VICINITY OF THE UNIVERSITY OF FLORIDA ¹

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Our present literature on the insect life of Florida contains very few references to aphids. In fact, only a few species which are of economic importance are even mentioned, and nothing like a list of those occurring in the State has been attempted. While this paper does not contain a complete list of the plant lice of Florida or even this section of the State, still it may serve as a start toward such a list, and may be added to from time to time.

Previous references include *Aphis brassica* on cabbage (31) (32), *Myzus persicae* on peach and tomatoes (26) (36), *Megoura solani* on tomatoes (35) (36), *Aphis gossypii* on cotton, cucurbits, and orange (2) (22) (31) (32), *Siphonophora cucurbitae* on egg-plant (32), *Aphis maidis* on corn (1), and *Toxoptera graminum* on oats (37). These are dealt with purely from an economic standpoint.

Lists of aphids have been written by several entomologists for various sections of the country, but none of them cover Florida. While it is true that a large number of plant lice are widely distributed and found in practically all the states, some others may be restricted to this part of the country alone. Therefore, a complete list for this State should be prepared.

The insects listed were collected over a period of two years

¹ Taken from thesis entitled "Systematic and Biological Studies of Some Florida Aphididae," presented by the writer to the University of Florida in 1915 for the degree of Master of Science.

This paper constitutes Part I exclusive of sections on methods of collecting, mounting, etc. Parts II and III together with references cited will appear in later issues.

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(1913-1915) and during all seasons. They represent those found on both cultivated crops and wild plants. The former, of course, are brought to the attention of economic workers much more often because of their importance to agriculture and also their greater abundance. The list represents about 30 species of aphids. Many others collected could not be determined because of lack of mature specimens or winged forms. Undoubtedly there are in the state many undescribed species of plant lice and at least two of these were found.

Permanent mounts were made of all specimens and are in the author's collection. Natural colors cannot be retained in mounted slides and color notes must be made from the live specimens.

HOST PLANT LIST OF APHIDS ¹

<i>Ampelopsis quinquefolia</i> (Virginia creeper)	<i>Aphis folsomii</i> Davis
<i>Andropogon sorghum</i> var. (sorghum)	<i>Sipha flava</i> Forbes.
Apple—see <i>Pyrus malus</i>	
<i>Avena sativa</i> (oats)	<i>Aphis avena</i> Fitch <i>Macrosiphum granaria</i> Buckt. <i>Myzus persicae</i> Sulz. <i>Toxoptera graminum</i> Rond.
Bean—see <i>Phaesolus vulgaris</i>	
Beet—see <i>Beta vulgaris</i>	
<i>Beta vulgaris</i> (beet)	<i>Myzus persicae</i> Sulz.
<i>Brassica oleraceae</i> (cabbage)	<i>Aphis brassicae</i> L. <i>Aphis pseudobrassicae</i> Paddock <i>Myzus persicae</i> Sulz.
<i>Brassica oleraceae</i> var. <i>acephala</i> (collards)	<i>Aphis pseudobrassicae</i> <i>Myzus persicae</i> Sulz.
<i>Brassica oleraceae</i> var. <i>acephala</i> (kale)	<i>Myzus persicae</i> Sulz.
<i>Brassica oleraceae</i> var. <i>botrytis</i> (cauliflower)	<i>Myzus persicae</i> Sulz.
<i>B. oleraceae</i> var. <i>caulo-rapa</i> (kohl rabi)	<i>Myzus persicae</i> Sulz.
<i>Brassica rapa</i> (turnip)	<i>Myzus persicae</i> Sulz.
Cabbage—see <i>Brassica oleraceae</i>	
Calabash gourd—see <i>Lagenaria vulgaris</i>	
<i>Capsicum annum</i> (pepper)	<i>Myzus persicae</i> Sulz.
Carrot—see <i>Daucus carota</i>	
Cauliflower—see <i>Brassica oleraceae</i> var. <i>botrytis</i>	
<i>Chenopodium viride</i> (Lamb's quarters)	<i>Myzus persicae</i> Sulz.

¹ Credit for the determinations of many of the aphids listed herein is given to J. J. Davis, Edith M. Patch, and F. B. Paddock.

- Sorghastrum stipoides*
Syntherisma consanguinea
Tricholaena rosea (Natal grass)
Tricholaena wrightii
- Green briar—see *Smilax* sp.
Hedera helix (English ivy)
- Helianthus annuus* (sunflower)
Hickoria alba
- Hickoria pecan* (pecan)
Hickoria sp. (hickory)
- Holly—see *Ilex opaca*
Hybiscus esculentus (okra)
Hybiscus sp. (hybiscus)
Ilex opaca (holly)
Ipomoea pandurata (moonflower)
 Ironweed—see *Vernonia angustifolia*
 Kale—see *Brassica oleraceae* var. *acephala*
 Kohl rabi—see *Brassica oleraceae* var. *caulorapa*
Lactuca sativa (lettuce)
- Lagenaria vulgaris* (calabash gourd)
 Lamb's quarters—see *Chenopodium viride*
 Lettuce—see *Lactuca sativa*
Lilium longiflorum (Easter lily)
- Lycopersicum esculentum* (tomato)
- Moonflower—see *Ipomoea pandurata*
 Musk-melon—see *Cucumis* sp.
 Mustard, black—see *Sinapis nigra*
 Nut grass—see *Cyperus esculenta*
 Oats—see *Avena sativa*
 Okra—see *Hybiscus esculentus*
 Orange—see *Citrus aurantium*
 Pansy—see *Viola tricolor*
 Parsnip—see *Pastinaca sativa*
Pastinaca sativa (parsnip)
- Pea—see *Pisum sativum*
 Peach—see *Prunus persica*
 Pecan—see *Hickoria pecan*
 Pepper—see *Capsicum annum*
Phaesolus vulgaris (garden bean)
 Pine—see *Pinus taeda*
- Sipha flava* Forbes
Aphis hederæ Kaltenbach.
Myzus persicae Sulz.
Myzus persicae Sulz.
Phylloxera caryae-scissa
 (Reported by Pergande (30))
Phylloxera sp.
Monellia caryella Fitch.
Phylloxera sp.
Phylloxera sp.
Phylloxera sp.
- Myzus persicae* Sulz.
Myzus persicae Sulz.
Toxoptera aurantiae Koch.
Aphis gossypii Glov.
- Macrosiphum rudbeckia* Fitch
Myzus persicae Sulz.
Aphis gossypii Glov.
- Aphis gossypii* Glov.
Myzus persicae Sulz.
Megoura solani Thomas
 (Reported Fla. Bul. 125)
Myzus persicae Sulz.

- Pinus taeda* (pine) *Lachnus pini* L.
Pisum sativum (garden pea) *Macrosiphum pisi* L.
Myzus persicae Sulz.
 Poinsettia—see *Euphorbia pulcherrima*
 Potato—see *Solanum tuberosum*
Prunus persica (peach) *Myzus persicae* Sulz.
Pyrus malus (apple) *Aphis pomi* DeG.
 Radish—see *Raphanus sativus*
Raphanus sativus (radish) *Myzus persicae* Sulz.
 Rhodes grass—see *Chloris gavana*
Rosa sp. (rose) *Macrosiphum davisi* Del G.
 Rose—see *Rosa* sp.
Saccharum officinarum (sugar cane) *Sipha flava* Forbes
Sinapis nigra (black mustard) *Myzus persicae* Sulz.
Smilax sp. (green briar) *Pemphigus attenuatus* Osb.
Solanum melongena (egg-plant) *Myzus persicae* Sulz.
Siphonophora curcurbitae Middleton.
 (Reported from Bul. 34, Fla.)
Solanum tuberosum (potato) *Myzus persicae* Sulz.
Sonchus asper (spiny-leaved sonchus) *Rhopalosiphum sonchi* Oestlund.
Rhopalosiphum sonchi Oestlund.
Sonchus oleraceus (sow thistle) *Myzus persicae* Sulz.
Sophia pinnata (Tansy mustard)
 Sorghum—see *Andropogon sorghum*
 Sow thistle—see *Sonchus oleraceus*
 Squash—see *Cucurbita* sp.
Stizolobium deeringianum (velvet bean) *Myzus persicae* Sulz.
 Sugar cane—see *Saccharum officinarum*
 Sunflower—see *Helianthus annuus*
 Tansy mustard—see *Sophia pinnata*
 Tomato—see *Lycopersicum esculentum*
 Turnip—see *Brassica rapa*
 Velvet bean—see *Stizolobium deeringianum*
Vernonia angustifolia (Ironweed) *Aphis vernoniae* Thos.
Viola tricolor (pansy) *Myzus persicae* Sulz.
Viola sp. (violet) *Myzus persicae* Sulz.
 Violet—see *Viola* sp.
 Virginia creeper—see *Ampelopsis quinquefolia*
Vitis sp. (wild grape) *Macrosiphum viticola* Thos.
 Watermelon—see *Citrullus vulgaris*
Zea Mays (corn) *Aphis maidis* Fitch
 (Reported in Fla. Bul. 2)
Aphis setariae Thos.
Macrosiphum sp.
Myzus persicae Sulz.
Sipha flava Forbes.
Toxoptera graminum Rond.